

Form PTO-1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 8CN-8803		SERIAL NO.	
Information Disclosure Statement by Applicant (Use several sheets if necessary)				APPLICANT John E. Davis et al			
(37 cfr 1.98(b))							
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>[initials]</i>	5,855,746	1/5/99	Prabhakara, et al.				
<i>✓</i>	5,814,400	9/29/98	Kirino, et al.				
<i>9</i>	5,789,756	8/4/98	Guzik				
<i>4</i>	5,729,393	3/17/98	Lee, et al.				
<i>9</i>	5,689,480	11/18/97	Kino				
<i>9</i>	5,666,237	9/9/97	Lewis (Abstract)				
<i>4</i>	5,590,115	12/31/96	Kubo				
<i>?</i>	5,585,159	12/17/96	Miyake, et al.				
<i>4</i>	5,583,705	12/10/96	Ziperovich, et al. (Abstract)				
<i>u</i>	5,537,034	7/16/96	Lewis (Abstract)				
<i>d</i>	5,533,001	7/2/96	Watanabe, et al.				
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>168</i>	6-187683		Japan				
<i>"</i>	6-4916		Japan				
<i>"</i>	6-12715		Japan				
<i>"</i>	6-4908		Japan				
<i>9</i>	6-20316		Japan				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
<i>[initials]</i>	"Thermoplastic Composites Reinforced With Melt Processable Glass", R.T. Young and D.G. Baird (5 pages)						
	Philips Research - Digital Video Recorder, http://www.research.philips.com/pressmedia/highlights (2 pages)						
<i>u</i>	Maxell Device: DVD-RAM, http://www.maxell.co.jp/eng/device/dvd-ram/profile.html (2 pages)						
	AV & Development Center, http://www.pioneer.co.jp/crdl/av.html (1 page)						
<i>9</i>	Near Field Recording - NFR, http://www.nswc.navy.mil/cosip/nov98 (5 pages)						
	Technical Info, http://209.24.93.3/tech_info/backgrounder.html (3 pages)						
EXAMINER <i>[signature]</i>				DATE CONSIDERED <i>3/1/00</i>			
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

(Form PTO-1449 [6-4])

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EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>ALB</i>	5,515,346	5/7/96	Watanabe, et al.	/	/	/	
<i>4</i>	5,493,454	2/20/96	Ziperovich, et al. (Abstract)				
<i>4</i>	5,490,131	2/6/96	Ohta, et al.				
<i>4</i>	5,489,774	2/6/96	Akamine, et al. (Abstract)				
<i>4</i>	5,470,627	11/28/95	Lee, et al.				
<i>4</i>	5,453,168	10/26/95	Nelson, et al.				
<i>4</i>	5,392,263	2/21/95	Watanabe, et al.				
<i>4</i>	5,379,439	1/3/95	Harrison, et al.				
<i>4</i>	5,354,985	10/11/94	Quate (Abstract)				
<i>4</i>	5,354,517	10/11/94	Yamasaki, et al.				
<i>4</i>	5,311,376	5/10/94	Joan, et al.				
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>ALB</i>	WO 8706385	10/22/87	World Organization (Abstract)	/	/		
<i>4</i>	06309714JP A	11/04/94	Japan (Abstract)				
<i>4</i>	06162583JP A	6/10/94	Japan (Abstract)				
<i>4</i>	06158281JP A	6/07/94	Japan (Abstract)				
<i>4</i>	06150419JP A	5/31/94	Japan (Abstract)				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
<i>ALB</i>	Strategic Partners Home, http://209.24.93.3/partners/index.html (1 page)						
	TeraStor, http://www.terastor.com/news/ , (6 pages)						
<i>4</i>	The era of giant magnetoresistive heads, http://www.storage.ibm.com/hardsoft/diskdrdl/technolo/gmr/ (16 pages)						
	Chp 3: Emerging Optical Storage Technologies, http://itri.loyola.edu/opto/c3_s5.htm (4 pgs.)						
<i>4</i>	Chp 3: Optical Storage in the Future, http://itri.loyola.edu (2 pages)						
	Chp 3: Overview of Optical Storage Systems, http://itri.loyola.edu (4 pages)						
EXAMINER <i>ALB</i>				DATE CONSIDERED <i>3/20/99</i>			
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EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>1/2/94</i>	5,309,303	5/3/94	Hsia, et al.				
<i>1</i>	5,296,528	3/22/94	Lütjens, et al.				
<i>1</i>	5,242,761	9/7/93	Uchiyama (Abstract)				
<i>1</i>	5,230,025	7/20/93	Fishbine, et al.				
<i>1</i>	5,202,880	4/13/93	Lee, et al.				
<i>1</i>	5,199,090	3/30/93	Bell				
<i>1</i>	5,193,039	3/9/93	Smith, et al. (Abstract)				
<i>1</i>	5,191,563	3/2/93	Lee, et al. (Abstract)				
<i>1</i>	5,178,926	1/12/93	Tanaka, et al.				
<i>1</i>	5,177,656	1/5/93	Hughes				
<i>1</i>	5,171,585	12/15/92	Onisawa, et al.				
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO	
<i>1/2/94</i>	06119668JP A	4/28/94	Japan (Abstract)				
<i>1</i>	06004908JP A	1/14/94	Japan (Abstract)				
<i>1</i>	06004916JP A	1/14/94	Japan (Abstract)				
<i>1</i>	06187683JP A	7/08/94	Japan (Abstract)				
<i>1</i>	06020316JP A	1/28/94	Japan (Abstract)				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
<i>1/2/94</i>		Chp 3: Comparison of Japanese and U.S. R&D, http://itri.loyola.edu/ (1 page)					
		"Learning and Process Improvement during Production Ramp-Up", Christian Terwiesch and Roger E. Bohn, The Wharton School, University of California San Diego, August 6, 1998 (33 pages)					
<i>1</i>		"Magnetic Storage Research Aiming at High Areal Densities", R&D Magazine, Dec. 1998 (6 pages)					
		The WTEC High Density Data Storage Study, http://itri.loyola.edu/ (2 pages)					
<i>1</i>		"Characterization of Magnetizing Process for Pre-Embossed Servo Pattern of Plastic Hard Disks", Shoji Tanaka et al., IEEE Transactions on Magnetics, Vol.30, No. 6, Nov. 1994 (3 pages)					
		Dispersed Concentration, David McKendrick, Report 98-03, November, 1998, http://www-irps.ucsd.edu/~sloan/papers (16 pages)					
EXAMINER <i>1/2/94</i>				DATE CONSIDERED <i>2/2/95</i>			
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(Form PTO-1449 (6-41))

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
16/8	5,161,134	11/3/92	Lee (Abstract)			/	
4	5,159,511	10/27/92	Das (Abstract)				
4	5,143,797	10/1/92	Hashima, et al.				
11	5,137,991	8/11/92	Epstein, et al.				
4	5,118,771	6/2/92	Inoue, et al.				
11	5,112,701	5/12/92	Katsuragawa				
11	5,112,662	5/12/92	Ng (Abstract)				
4	5,109,377	4/28/92	Yamamoto, et al.				
4	5,106,553	4/21/92	Onisawa, et al.				
4	5,100,741	3/31/92	Shimoda, et al.				
4	5,097,370	3/17/92	Hsia				

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION		
16/8	06012715JP A	1/21/94	Japan (Abstract)		YES	NO	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)	
16/8	Proposal to the Alfred P. Sloan Foundation from The Graduate School of International Relations and Pacific Studies and The Center For Magnetic Recording Research, Feb. 19, 1998, http://www-irps.ucse.edu/~sloan/papers/sloanprop98.html (27 pages)
4	"Use of high performance resins for the planarization of magnetic rigid disk substrates", IEEE Transactions on Magnetics (Nov. 1991), vol.27, no.6, pt.2, p.5175-7 (Abstract) (1 page)
4	"Planarizing coating using PMR polyimides (magnetic recording discs), IBM Technical Disclosure Bulletin (Oct. 1982) vol.25, no.5, p.2453-4 (Abstract)
4	"Nanoimprint lithography", Stephen Y. Chou et al., 1996 American Vacuum Society p.4129-4133
4	"Imprint of sub-25 nm vias and trenches in polymers", Stephen Y. Chou et al., 1995 American Institute of Physics, p.3114-3116
4	"Nano-compact disks with 400 Gbit/in ² storage density fabricated using nanoimprint lithography and read with proximal probe", Peter R. Krauss et al, 1997 American Institute of Physics, p. 3174-3176

EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>2/6/97</i>
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EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>[Signature]</i>	5,094,925	3/10/92	Ise, et al.				
<i>1</i>	5,093,174	3/3/92	Suzuki, et al.				
<i>4</i>	5,087,340	2/11/92	Onagi, et al.				
<i>1</i>	5,063,096	11/5/91	Kohara, et al.				
<i>α</i>	5,059,473	10/22/91	Takahashi, et al.				
<i>4</i>	5,018,128	5/21/91	Goldberg				
<i>4</i>	5,014,259	5/7/91	Goldberg, et al.				
<i>4</i>	5,002,706	3/26/91	Yamashita				
<i>4</i>	4,999,234	3/12/91	Cowan				
<i>4</i>	4,986,938	1/22/91	Izuka, et al.				
<i>1</i>	4,983,335	1/8/91	Matsuo, et al.				
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)							
<i>[Signature]</i>		"Patterned Media: A Viable Route to 50 Gbit/in ² and up for Magnetic Recording?", Robert J. White et al., IEEE Transactions on Magnetics, vol. 33, no. 1, Jan. 1997, p.990-995					
		DATA Storage on December 02, 1999, Article Date: September, 1998, "Patterned media: 200 Gb/in ² or bust" (10 pages)					
<i>cl</i>		DATA Storage on December 06, 1999, Article Date: September, 1997, "Patterned media promise superhigh storage densities" (10 pages)					
		"Recording Characteristics of Submicron Discrete Magnetic Tracks", S.E. Lambert et al., 1987 IEE, pages 3690-3692					
<i>4</i>		"Direct nanoimprint of submicron organic light-emitting structures", Jian Wang et al, 1999 Appl. Phys. Lett., Vol. 75, No. 18, 1 November 1999, pages 2767-2769					
		"Lithographically induced self-construction of polymer microstructures for resistless patterning", Stephen Y. Chou et al., Appl. Phys. Lett., Vol. 75, No. 7, August 1999, p 1004-1005					
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
168	4,965,780	10/23/90	Lee, et al. (Abstract)				
1	4,923,942	5/8/90	Takeyama, et al.				
1	4,911,966	3/27/90	Murayama, et al.				
4	4,908,826	3/13/90	Hertrich (Abstract)				
7	4,902,746	2/20/90	Serini, et al.				
4	4,893,910	1/16/90	Birecki				
4	4,885,649	12/5/89	Das (Abstract)				
4	4,845,142	7/4/89	Niwano, et al.				
4	4,841,501	6/20/89	Izuka, et al.				
4	4,809,110	2/28/89	Hertrich (Abstract)				
4	4,741,689	5/3/88	Onizawa, et al.				

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.**)	
168	DATA Storage on December 02, 1999, Article Date: May, 1999, "Patterned media: Giant step in magnetic storage" (7 pages)
1	DATA Storage on December 02, 1999, Article Date: January, 1999, "Magnetic Recording: the next 100 years" (10 pages)
11	"Architecture of TeraStor's Near Field Recording Technology, http://209.24.93.3/tech_info , (8 pages)
11	"Facts About Near Field Recording", http://www.basis-gmbh.de , (2 pages)
11	"US HDD Makers Turn to 10-Gbit/Inch ² Near Field Record", http://www.nikkeibp.com , (8 pages)
11	"Facts About Near Field Recording", http://209.24.93.3/tech_info , (3 pages)
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<i>148</i>	4,726,998	2/23/88	Ikenaga, et al.				
<i>1</i>	4,719,171	1/12/88	Ikenaga, et al.				
<i>1</i>	4,658,392	4/14/87	Langowski, et al.				
<i>1</i>	4,656,546	4/7/87	Mallory (Abstract)				
<i>1</i>	4,622,284	11/11/86	West, et al. (Abstract)				
<i>1</i>	4,596,740	6/24/86	Tsukane				
<i>1</i>	4,596,739	6/24/86	Piltingsrud, et al.				
<i>1</i>	4,569,871	2/11/86	Ohmori, et al.				
<i>1</i>	4,503,420	3/5/85	Rub, et al. (Abstract)				
<i>1</i>	4,441,179	4/3/84	Slaten				
<i>1</i>	4,415,942	11/15/83	Frosch, et al.				

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					YES	NO	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		

EXAMINER <i>148</i>	DATE CONSIDERED <i>3/8/88</i>
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<i>1/14/97</i>	4,515,828	5/07/85	Economy (Abstract)			<div style="font-size: 4em; transform: rotate(-45deg); display: inline-block;">/</div>	
<i>4</i>	5,723,033	3/03/98	Weiss				
<i>7</i>	5,907,448	5/25/99	Watanabe, et al.				
<i>4</i>	4,877,666	10/31/89	Muchnik, et al. (Abstract)				
<i>4</i>	4,896,292	1/23/90	Eich, et al. (Abstract)				
<i>4</i>	4,911,967	3/27/90	Lazzari (Abstract)				
<i>4</i>	4,964,934	10/23/90	Gregg (Abstract)				
<i>4</i>	4,975,358	12/04/90	Sonnenschein, et al. (Abstract)				
<i>4</i>	5,018,962	5/28/91	Kitamura, et al. (Abstract)				
<i>4</i>	5,068,065	11/26/91	Maus, et al. (Abstract)				
<i>4</i>	5,096,563	3/17/92	Yoshizawa, et al. (Abstract)				

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1/4/4	5,120,603	6/09/92	Schmidt (Abstract)				
6/	5,164,465	11/17/92	Epstein, et al. (Abstract)				
6/	5,267,112	11/30/93	Batra, et al. (Abstract)				
6/	5,276,098	1/04/94	Kohara, et al. (Abstract)				
6/	5,582,891	12/10/96	Murakami, et al. (Abstract)				
6/	5,585,989	12/17/96	Kuromiya, et al. (Abstract)				
6/	5,669,995	9/23/97	Hong (Abstract)				
6/	5,751,452	5/12/98	Tanaka, et al. (Abstract)				
6/	5,804,017	9/08/98	Hector (Abstract)				
6/	5,807,498	9/15/98	Gibbons, et al. (Abstract)				
6/	5,808,830	9/15/98	Stefansky, et al. (Abstract)				

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DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION		
					YES	NO	

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